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 Mouse inducible costimulatory molecule (ICOS) expression is enhanced by CD28 costimulation and regulates differentiation of CD4+ T cells.  
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- ☐ **24:** Wang S, Zhu G, Chapoval AI, Dong H, Tamada K, Ni J, Chen L. Related Articles, OMIM  
 Costimulation of T cells by B7-H2, a B7-like molecule that binds ICOS.  
 Blood. 2000 Oct 15;96(8):2808-13.  
 PMID: 11023515 [PubMed - indexed for MEDLINE]

- ☐ **25:** Yoshinaga SK, Zhang M, Pistillo J, Horan T, Khare SD, Miner K, Sonnenberg M, Boone T, Brankow D, Dai T, Delaney J, Han H, Hui A, Kohno T, Manoukian R, Whoriskey JS, Coccia MA. Related Articles, OMIM  
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 PMID: 11007762 [PubMed - indexed for MEDLINE]

- ☐ **26:** Tezuka K, Tsuji T, Hirano D, Tamatani T, Sakamaki K, Kobayashi Y, Kamada M. Related Articles, Nucleotide, Protein  
 Identification and characterization of rat AILIM/ICOS, a novel T-cell costimulatory molecule, related to the CD28/CTLA4 family.  
 Biochem Biophys Res Commun. 2000 Sep 16;276(1):335-45.  
 PMID: 11006126 [PubMed - indexed for MEDLINE]

- ☐ **27:** Coyle AJ, Lehar S, Lloyd C, Tian J, Delaney T, Manning S, Nguyen T, Burwell T, Schneider H, Gonzalo JA, Gosselin M, Owen LR, Rudd CE, Gutierrez-Ramos JC. Related Articles, OMIM  
 The CD28-related molecule ICOS is required for effective T cell-dependent immune responses.

- ☐ **28:** Kopf M, Coyle AJ, Schmitz N, Barner M, Oxenius A, Gallimore A, Gutierrez-Ramos JC, Bachmann MF. **Related Articles**  
**Inducible costimulator protein (ICOS) controls T helper cell subset polarization after virus and parasite infection.**  
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- ☐ **29:** Aicher A, Hayden-Ledbetter M, Brady WA, Pezzutto A, Richter G, Magaletti D, Buckwalter S, Ledbetter JA, Clark EA. **Related Articles, Nucleotide, Protein**  
**Characterization of human inducible costimulator ligand expression and function.**  
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- ☐ **30:** Mages HW, Hutloff A, Heuck C, Buchner K, Himmelbauer H, Oliveri F, Kroczeck RA. **Related Articles, Nucleotide, Protein**  
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Eur J Immunol. 2000 Apr;30(4):1040-7.  
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- ☐ **31:** Brodie D, Collins AV, Jaboni A, Fennelly JA, Sparks LM, Xu XN, van der Merwe PA, Davis SJ. **Related Articles**  
**LICOS, a primordial costimulatory ligand?**  
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**Cutting edge: identification of GL50, a novel B7-like protein that functionally binds to ICOS receptor.**  
J Immunol. 2000 Feb 15;164(4):1653-7.  
PMID: 10657606 [PubMed - indexed for MEDLINE]
- ☐ **33:** Yoshinaga SK, Whoriskey JS, Khare SD, Sarmiento U, Guo J, Horan T, Shih G, Zhang M, Coccia MA, Kohno T, Tafuri-Bladt A, Brankow D, Campbell P, Chang D, Chiu L, Dai T, Duncan G, Elliott GS, Hui A, McCabe SM, Scully S, Shahinian A, Shaklee CL, Van G, Mak TW, et al. **Related Articles, Nucleotide, OMIM, Protein**  
**T-cell co-stimulation through B7RP-1 and ICOS.**  
Nature. 1999 Dec 16;402(6763):827-32.  
PMID: 10617205 [PubMed - indexed for MEDLINE]
- ☐ **34:** Tamatani T, Tezuka K, Hanzawa-Higuchi N. **Related Articles**  
**AILIM/ICOS: a novel lymphocyte adhesion molecule.**  
Int Immunol. 2000 Jan;12(1):51-5.  
PMID: 10607749 [PubMed - indexed for MEDLINE]
- ☐ **35:** Hutloff A, Dittrich AM, Beier KC, Eljaschewitsch B, Kraft R, Anagnostopoulos I, Kroczeck RA. **Related Articles, Nucleotide, OMIM, Protein**  
**ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28.**  
Nature. 1999 Jan 21;397(6716):263-6.  
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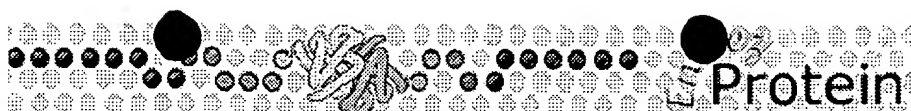
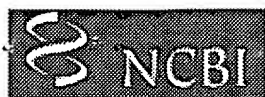
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 Nature. 1999 Jan 21;397(6716):263-6.  
 PMID: 9930702 [PubMed - indexed for MEDLINE]

- ☐ 5: [Redoglia V, Dianzani U, Rojo JM, Portoles P, Bragardo M, Wolff H, Buonfiglio D, Bonissoni S, Janeway CA Jr.](#) Relate

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 Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/T cell receptor.  
 Eur J Immunol. 1996 Nov;26(11):2781-9.  
 PMID: 8921969 [PubMed - indexed for MEDLINE]

- ☐ 6: [Buonfiglio D, Bragardo M, Bonissoni S, Redoglia V, Cauda R, Zupo S, Burgio VL, Wolff H, Franssila K, Gaidano G, Carbone A, Janeway CA Jr, Dianzani U.](#) Relate

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 Characterization of a novel human surface molecule selectively expressed by mature thymocytes, activated T cells and subsets of T cell lymphomas.  
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 PMID: 10508261 [PubMed - indexed for MEDLINE]



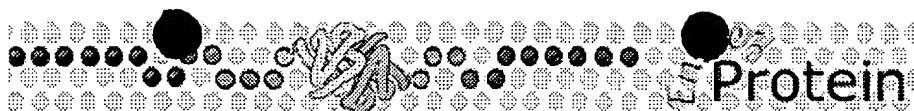
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LOCUS CAC06612 199 aa PRI 19-JAN-2001  
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VERSION CAC06612.1 GI:9968296  
DBSOURCE embl locus HSA277832, accession AJ277832.1  
KEYWORDS .  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (residues 1 to 199)  
AUTHORS Hutloff,A., Dittrich,A.M., Beier,K.C., Eljaschewitsch,B., Kraft,R.,  
Anagnostopoulos,I. and KroczeK,R.A.  
TITLE ICOS is an inducible T-cell co-stimulator structurally and  
functionally related to CD28  
JOURNAL Nature 397 (6716), 263-266 (1999)  
MEDLINE 99127892  
REFERENCE 2 (residues 1 to 199)  
AUTHORS Beier,K.C., Hutloff,A., Dittrich,A.M., Heuck,C., Rauch,A.,  
Buchner,K., Ludewig,B., Ochs,H.D., Mages,H.W. and KroczeK,R.A.  
TITLE Induction, binding specificity and function of human ICOS  
JOURNAL Eur. J. Immunol. 30 (12), 3707-3717 (2000)  
MEDLINE 20586143  
REFERENCE 3 (residues 1 to 199)  
AUTHORS Hutloff,A.  
TITLE Direct Submission  
JOURNAL Submitted (05-MAY-2000) Hutloff A., Molecular Immunology, Robert  
Koch-Institut, Nordufer 20, Berlin, 13353, GERMANY  
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☐ 1: **S78540 inducible T-cell co-stimulator ICOS** BLINK, PubMed, Related Sequences, Taxonomy, OMIM, LinkOut  
**precursor - human**

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07-May-1999.  
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (residues 1 to 199)  
AUTHORS Hutloff,A., Dittrich,A.M., Beier,K.C., Eljaschewitsch,B., Kraft,R.,  
Anagnostopoulos,I. and KroczeK,R.A.  
TITLE ICOS is an inducible T-cell co-stimulator structurally and  
functionally related to CD28  
JOURNAL Nature 397 (6716), 263-266 (1999)  
MEDLINE 99127892  
REFERENCE 2 (residues 1 to 199)  
AUTHORS KroczeK,R.  
TITLE Direct Submission  
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    181 mfmravntak ksrltdvtl
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 ICOS ligand costimulation is required for T-cell encephalitogenicity.  
 Clin Immunol. 2001 Sep;100(3):277-88.  
 PMID: 11513541 [PubMed - indexed for MEDLINE]

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Enhancement of CD8+ T cell responses by ICOS/B7h costimulation.

J Immunol. 2001 Jul 1;167(1):132-9.

PMID: 11418641 [PubMed - indexed for MEDLINE]

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Differential expression of inducible costimulator-ligand splice variants: lymphoid regulation of mouse GL50-B and human GL50 molecules.

J Immunol. 2001 Jun 15;166(12):7300-8.

PMID: 11390480 [PubMed - indexed for MEDLINE]

☐ **11:** [Tafari A, Shahinian A, Bladt F, Yoshinaga SK, Jordana M, Wakeham A, Boucher LM, Bouchard D, Chan VS, Duncan G, Odermatt B, Ho A, Itie A, Horan T, Whoriskey JS, Pawson T, Penninger JM, Ohashi PS, Mak TW.](#) Related Articles, OMIM

ICOS is essential for effective T-helper-cell responses.

Nature. 2001 Jan 4;409(6816):105-9.

PMID: 11343123 [PubMed - indexed for MEDLINE]

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ICOS is critical for CD40-mediated antibody class switching.

Nature. 2001 Jan 4;409(6816):102-5.

PMID: 11343122 [PubMed - indexed for MEDLINE]

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ICOS co-stimulatory receptor is essential for T-cell activation and function.

Nature. 2001 Jan 4;409(6816):97-101.

PMID: 11343121 [PubMed - indexed for MEDLINE]

☐ **14:** [Schwartz RH.](#)

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J Immunol. 2001 May 1;166(9):5578-84.

PMID: 11313397 [PubMed - indexed for MEDLINE]

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ICOS costimulation requires IL-2 and can be prevented by CTLA-4 engagement.

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Trends Immunol. 2001 Apr;22(4):217-23. Review.

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J Immunol. 2001 Mar 15;166(6):3659-62.

PMID: 11238604 [PubMed - indexed for MEDLINE]

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Blood. 2001 Mar 15;97(6):1809-16.

PMID: 11238124 [PubMed - indexed for MEDLINE]

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[Related Articles](#), [Nucleotide](#), [Protein](#)

Induction, binding specificity and function of human ICOS.

Eur J Immunol. 2000 Dec;30(12):3707-17.

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